

Air Purification Equipment Manufacturing: 2002

Issued December 2004

EC02-311-333411 (RV)

2002 Economic Census

Manufacturing

Industry Series



USCENSUSBUREAU

Helping You Make Informed Decisions

U.S. Department of Commerce
Economics and Statistics Administration
U.S. CENSUS BUREAU



CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix

Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	7
7. Materials Consumed by Kind: 2002 and 1997.....	8

Appendixes

A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
333411, Air purification equipment manufacturing	2002..	328	383	17 732	544 527	11 368	22 416	277 086	1 225 504	1 097 780	2 322 972	142 364
2001	N	N	N	15 380	468 588	10 923	21 623	258 678	995 746	965 296	1 960 924	56 869
2000	N	N	N	15 760	482 694	11 226	22 978	271 402	1 111 943	929 992	2 021 789	81 940
1999	N	N	N	15 901	445 450	11 294	23 031	245 509	1 169 922	898 660	2 061 759	59 186
1998	N	N	N	16 270	464 383	12 247	23 916	275 209	1 324 168	976 619	2 302 053	94 167
1997	333	372	N	16 447	479 162	11 628	23 179	263 390	1 199 939	1 006 932	2 218 051	70 118

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333411, Air purification equipment manufacturing												
United States	1	383	179	17 732	544 527	11 368	22 416	277 086	1 225 504	1 097 780	2 322 972	'42 364
Alabama	4	6	3	181	5 073	139	270	3 020	8 814	8 240	17 117	'170
California	1	43	16	911	29 427	660	1 310	17 060	66 025	54 655	120 212	'2 646
Colorado	1	9	2	127	5 293	74	156	2 475	9 179	10 674	19 922	'201
Georgia	2	9	6	357	15 077	190	376	4 976	51 884	40 150	92 087	'1 291
Illinois	3	29	15	1 150	39 502	745	1 490	19 920	93 541	72 471	166 694	'2 519
Kentucky	—	11	5	702	18 844	524	1 075	11 252	44 649	40 534	85 479	'2 491
Massachusetts	6	7	4	334	13 275	230	484	6 319	28 729	22 005	50 382	'925
Michigan	1	18	11	447	16 291	282	532	8 194	30 519	23 926	57 477	'634
Minnesota	—	8	3	135	4 525	87	178	2 040	11 167	6 394	17 569	'320
Missouri	1	8	4	430	9 807	366	711	7 378	25 772	21 277	47 088	'690
Nevada	1	5	2	127	3 166	106	213	2 174	7 708	5 269	13 987	'109
New York	—	10	4	203	7 171	107	212	2 190	11 398	17 069	28 727	'246
North Carolina	1	29	16	1 920	50 295	1 472	2 897	30 196	91 586	108 874	201 715	'3 493
Ohio	—	14	7	736	19 307	536	949	9 457	41 559	30 064	71 600	'3 286
Oregon	—	4	2	387	15 390	271	610	8 498	38 938	30 872	61 344	'514
Pennsylvania	1	12	3	237	6 386	174	334	3 462	26 802	21 061	48 194	'334
South Carolina	—	8	2	193	3 982	169	330	3 171	9 030	8 924	18 387	'310
Texas	—	31	18	1 423	37 584	1 002	2 031	20 260	106 313	75 882	183 093	'3 501
Wisconsin	—	12	7	997	41 805	626	1 270	20 177	91 741	72 445	167 235	'1 486

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333411, Air purification equipment manufacturing	
Companies ¹	number.. 328
All establishments ²	number.. 383
Establishments with 1 to 19 employees	number.. 204
Establishments with 20 to 99 employees	number.. 133
Establishments with 100 employees or more	number.. 46
All employees ³	number.. 17 732
Total compensation	\$1,000.. 666 867
Annual payroll	\$1,000.. 544 527
Total fringe benefits	\$1,000.. 122 340
Production workers, average for year	number.. 11 368
Production workers on March 12	number.. 11 259
Production workers on May 12	number.. 11 355
Production workers on August 12	number.. 11 441
Production workers on November 12	number.. 11 373
Production worker hours	1,000.. 22 416
Production worker wages	\$1,000.. 277 086
Total cost of materials	\$1,000.. 1 097 780
Materials, parts, containers, packaging, etc., used	\$1,000.. 948 548
Resales	\$1,000.. 80 650
Purchased fuels	\$1,000.. 6 354
Purchased electricity	\$1,000.. 15 086
Contract work	\$1,000.. 47 142
Quantity of electricity purchased for heat and power	1,000 kWh.. 244 973
Quantity of electricity generated less sold for heat and power	1,000 kWh.. D
Total value of shipments	\$1,000.. 2 322 972
Primary products value of shipments	\$1,000.. 2 055 175
Secondary products value of shipments	\$1,000.. 119 979
Total miscellaneous receipts	\$1,000.. 147 818
Value of resales	\$1,000.. 110 511
Contract receipts	\$1,000.. 8 016
Other miscellaneous receipts	\$1,000.. 29 291
Primary products specialization ratio	percent.. 94
Value of primary products shipments made in all industries	\$1,000.. 2 149 175
Value of primary products shipments made in this industry	\$1,000.. 2 055 175
Value of primary products shipments made in other industries	\$1,000.. 94 000
Coverage ratio	percent.. 96
Value added	\$1,000.. 1 225 504
Total inventories, beginning of year	\$1,000.. 273 151
Finished goods inventories	\$1,000.. 72 951
Work-in-process inventories	\$1,000.. 62 499
Materials and supplies inventories	\$1,000.. 137 701
Total inventories, end of year	\$1,000.. 269 944
Finished goods inventories	\$1,000.. 69 068
Work-in-process inventories	\$1,000.. 66 694
Materials and supplies inventories	\$1,000.. 134 182
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 1760 295
Total capital expenditures (new and used)	\$1,000.. 142 364
Buildings and other structures (new and used)	\$1,000.. 8 347
Machinery and equipment (new and used)	\$1,000.. 134 017
Automobiles, trucks, etc., for highway use	\$1,000.. 2 166
Computers and peripheral data processing equipment	\$1,000.. 4 694
All other expenditures for machinery and equipment	\$1,000.. 27 157
Total retirements	\$1,000.. 124 223
Gross value of depreciable assets at end of year	\$1,000.. 1778 436
Depreciation charges during year	\$1,000.. 149 904
Total rental payments	\$1,000.. 33 854
Buildings and other structures	\$1,000.. 25 691
Machinery and equipment	\$1,000.. 8 163
Total other expenses ⁴	\$1,000.. 144 616
Response coverage ratio ⁵	percent.. 88
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 12 821
Communications services ⁴	\$1,000.. 6 779
Legal services ⁴	\$1,000.. 4 836
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 2 012
Advertising and promotional services ⁴	\$1,000.. 8 464
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 5 579
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 2 370
Management consulting and administrative services ⁴	\$1,000.. 4 125
Taxes and license fees ⁴	\$1,000.. 4 473
All other expenses ⁴	\$1,000.. 93 157

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on 2002 Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333411, Air purification equipment manufacturing											
All establishments	1	383	17 732	544 527	11 368	22 416	277 086	1 225 504	1 097 780	2 322 972	'42 364
Establishments with—											
1 to 4 employees	8	99	208	6 919	158	289	3 778	14 553	11 364	26 034	'335
5 to 9 employees	7	51	333	11 693	235	478	6 218	27 028	22 526	50 492	'991
10 to 19 employees	3	54	728	24 850	476	878	11 469	55 455	43 362	97 531	'1 048
20 to 49 employees	2	86	2 737	104 564	1 564	3 087	42 872	245 356	181 475	430 740	'8 386
50 to 99 employees	1	47	3 231	96 417	2 372	4 651	56 330	236 194	197 794	435 893	'5 731
100 to 249 employees	—	38	6 139	197 197	4 337	8 754	105 278	486 874	473 810	955 101	'17 409
250 to 499 employees	—	7	g	D	D	D	D	D	D	D	D
500 to 999 employees	—	—	—	—	—	—	—	—	—	—	—
1,000 to 2,499 employees	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more	—	—	—	—	—	—	—	—	—	—	—
Administrative records ⁴	9	140	674	21 697	505	1 013	11 950	47 827	40 047	87 235	'1 244

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333411	Air purification equipment manufacturing	383	17 732	544 527	11 368	22 416	277 086	1 225 504	1 097 780	2 322 972	'42 364
3334111	Dust collection and other air purification equipment for industrial gas cleaning systems	74	6 213	220 072	2 840	5 494	90 634	432 443	414 390	838 193	'13 477
3334113	Dust collection and other air purification equipment for cleaning incoming air	179	10 976	303 755	8 168	16 196	177 640	745 643	644 790	1 398 810	'26 797

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333411	Air purification equipment manufacturing	2002.. N 1997.. N	X X	X X	2 149 175 2 101 717
3334111	Dust collection and other air purification equipment for industrial gas cleaning systems	2002.. N 1997.. N	X X	X X	721 668 711 872
33341111	Dust collection and other air purification equipment for industrial gas cleaning systems (for cleaning outgoing air)	2002.. N 1997.. N	X X	X X	662 989 636 882
3334111110	Dust collection and other air purification equipment for industrial gas cleaning systems (for cleaning outgoing air), except parts	2002.. 65 1997.. 49	X X	X X	594 311 516 958
3334111165	Parts for industrial air purification equipment	2002.. 26 1997.. 28	X X	X X	68 678 119 924
3334111Y	Dust collection and other air purification equipment for industrial gas cleaning systems, nsk	2002.. N 1997.. N	X X	X X	58 679 74 990
3334111YVV	Dust collection and other air purification equipment for industrial gas cleaning systems, nsk	2002.. N 1997.. N	X X	X X	58 679 74 990
3334113	Dust collection and other air purification equipment for cleaning incoming air	2002.. N 1997.. N	X X	X X	1 375 452 1 296 305
33341131	Air filters for air-conditioners and furnaces, etc., of 2400 CFM or less, except parts	2002.. N 1997.. N	X X	X X	707 736 273 170
3334113103	Air filters for air-conditioners and furnaces, etc., of 2400 CFM or less, except parts	2002.. 55 1997.. 39	X X	X X	707 736 273 170
33341132	Other dust collection and air purification equipment, except parts	2002.. N 1997.. N	X X	X X	559 098 876 394
3334113207	Air washers (purification equipment for cleaning incoming air), except parts	2002.. 22 1997.. 6	X X	X X	85 126 11 930
3334113211	Electrostatic precipitation dust collection and air purification equipment, except parts	2002.. 19 1997.. 17	X X	X X	99 526 165 316
3334113231	All other dust collection and air purification equipment (including air filters for air-conditioners and furnaces), except parts	2002.. 86 1997.. 87	X X	X X	374 446 699 148
33341133	Parts for dust collection and air purification equipment	2002.. N 1997.. N	X X	X X	59 369 36 174
3334113355	Parts for dust collection and air purification equipment	2002.. 28 1997.. 18	X X	X X	59 369 36 174
3334113Y	Dust collection and other air purification equipment for cleaning incoming air, nsk	2002.. N 1997.. N	X X	X X	49 249 110 567
3334113YVV	Dust collection and other air purification equipment for cleaning incoming air, nsk	2002.. N 1997.. N	X X	X X	49 249 110 567
333411W	Air purification equipment manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	52 055 93 540
333411WY	Air purification equipment manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	52 055 93 540
333411WYWW	Air purification equipment manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	4 353 17 552
333411WYWY	Air purification equipment manufacturing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	47 702 75 988

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3334111	Dust collection and other air purification equipment for industrial gas cleaning systems	
	United States	2002.. 721 668
		1997.. 711 872
	California	2002.. 17 670
		1997.. N
	Illinois	2002.. 43 022
		1997.. 55 821
	North Carolina	2002.. 21 791
		1997.. 7 001
	Ohio	2002.. 24 678
		1997.. 35 296
	Texas	2002.. 44 378
		1997.. N
	Wisconsin	2002.. 58 629
		1997.. N
3334113	Dust collection and other air purification equipment for cleaning incoming air	
	United States	2002.. 1 375 452
		1997.. 1 296 305
	Alabama	2002.. 10 539
		1997.. 8 916
	California	2002.. 87 366
		1997.. 99 326
	Colorado	2002.. 6 620
		1997.. N
	Georgia	2002.. 52 559
		1997.. N
	Illinois	2002.. 99 254
		1997.. 87 467
	Kentucky	2002.. 74 122
		1997.. 51 383
	Massachusetts	2002.. 21 836
		1997.. 10 079
	Michigan	2002.. 49 278
		1997.. 52 394
	Minnesota	2002.. 14 771
		1997.. 12 273
	Nevada	2002.. 9 963
		1997.. N
	New York	2002.. 13 797
		1997.. 30 124
	North Carolina	2002.. 174 050
		1997.. 162 030
	Ohio	2002.. 53 240
		1997.. 104 947
	Pennsylvania	2002.. 41 648
		1997.. 41 012
	Texas	2002.. 121 281
		1997.. 75 568
	Wisconsin	2002.. 49 420
		1997.. 45 149

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333411	Air purification equipment manufacturing		
00900001	Total materials .....2002..	X	948 548
	.....1997..	X	853 520
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	2 670
	.....1997..	X	24 758
33291901	Metal pipe, valves, and pipe fittings (excluding forgings) .....2002..	X	15 235
	.....1997..	X	43 077
33200051	Other fabricated metal products (excluding fluid power products and forgings) .....2002..	X	20 336
	.....1997..	X	21 906
33200099	Fabricated structural metal products (excluding forgings) .....2002..	X	30 909
	.....1997..	X	43 826
00190090	Fluid power products .....2002..	X	3 281
	.....1997..	X	17 611
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	3 008
	.....1997..	X	21 840
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	1 408
	.....1997..	X	D
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	9 315
	.....1997..	X	39 552
33120016	Steel sheet and strip (including tinplate) .....2002..	X	37 049
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	7 073
	.....1997..	X	11 537
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	6 123
	.....1997..	X	52 601
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	8 315
	.....1997..	X	N
33531201	Electric motors and generators .....2002..	X	6 469
	.....1997..	X	40 778
33299101	Ball and roller bearings (mounted or unmounted) .....2002..	X	786
	.....1997..	X	D
00190011	Flexible packaging materials, paperboard containers and boxes, and corrugated paperboard .....2002..	X	12 886
	.....1997..	X	21 027
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	483 443
	.....1997..	X	403 720
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	300 242
	.....1997..	X	104 372

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.